



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number. : 10/602,057  
Applicant : Zamel et al.  
Filed : June 23, 2003  
Title : Diode-Pumped Solid-State Laser Gain Module  
  
TC/A.U. : Not Assigned  
Examiner : Not Assigned  
  
Docket Number : 47080-00045USPT  
Customer Number : 30223

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §§1.97 and 1.98

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING  
37 C.F.R. 1.8

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class Mail in an envelope addressed to: MS DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below:

11/12/03 *Corinne L. Roysinger*  
Date Signature

Dear Commissioner:

In compliance with the duty of disclosure under 37 C.F.R. §1.56, it is respectfully requested that this Information Disclosure Statement be entered and the reference(s) listed on attached Form PTO-1449 be considered by the Examiner and made of record.

In accordance with 37 C.F.R. § 1.98(d), copies of the listed references are enclosed.

In accordance with 37 C.F.R. §§ 1.97(g),(h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information disclosed is, or is considered to be, prior art with respect to the present application or material to patentability as defined in 37 C.F.R. §§ 1.56.

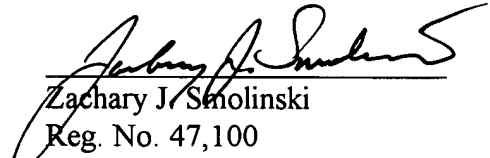
The present Information Disclosure statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits and hence is believed to be timely in

accordance with 37 C.F.R. § 1.97(b). Accordingly, no fees are believed to be due in connection with the filing of this Information Disclosure Statement. However, should any fees be deemed necessary (except payment of the issue fee), the Commissioner is authorized to charge any deficiency or to credit any overpayment to Jenkins & Gilchrist Account No. 10-0447/47080-00045USPT.

Respectfully submitted,

November 11, 2003

Date

  
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Form PTO-1449 (modified)	Atty. Docket No. 47080-00045USPT	Serial No. 10/602,057
List of Patents and Publications for Applicant's <b>INFORMATION DISCLOSURE STATEMENT</b>	Applicant Zamel et al.	
	Filing Date: 06/23/03	Group: Not Assigned

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	A01	3,303,432	02/07/1967	Garfinkel et al.	331	94.5	
	A02	3,339,151	08/29/1967	Smith	331	94.5	
	A03	3,590,248	06/29/1971	Chatterton	250	199	
	A04	3,633,126	01/04/1972	Martin et al.	331	94.5	
	A05	3,683,296	08/08/1972	Scalise	331	94.5	
	A06	3,771,031	11/06/1973	Kay	317	235 R	
	A07	3,810,041	05/07/1974	Martin	331	94.5	
	A08	3,962,655	06/08/1976	Selway et al.	331	94.5	
	A09	4,057,101	11/08/1977	Ruka et al.	165	1	
	A10	4,092,614	05/30/1978	Sakuma et al.	331	94.5	
	A11	4,150,341	04/17/1979	Ferguson	331	94.5	
	A12	4,228,406	10/14/1980	Lewis et al.	331	94.5	
	A13	4,233,567	11/11/1980	Chernoch	331	94.5	
	A14	4,284,963	08/18/1981	Allen, Jr. et al.	331	94.5	
	A15	4,315,225	02/09/1982	Allen, Jr. et al.	372	35	
	A16	4,378,601	03/29/1983	Eggleston, III et al.	372	66	
	A17	4,383,270	05/10/1983	Schelhorn	357	71	
	A18	4,393,393	07/12/1983	Allen, Jr. et al.	357	81	
	A19	4,415,234	11/15/1983	Meyers	350	310	
	A20	4,454,602	06/12/1984	Smith	372	36	
	A21	4,468,774	08/28/1984	Robbins	372	34	
	A22	4,475,790	10/09/1984	Little	350	96.21	
	A23	4,528,671	07/09/1985	Robbins	372	68	
	A24	4,573,067	02/25/1986	Tuckerman et al.	357	82	
	A25	4,575,854	03/11/1986	Martin	372	75	
	A26	4,617,585	10/14/1986	Yasui	357	72	
	A27	4,617,724	10/21/1986	Yokoyama et al.	29	576 B	

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INFORMATION DISCLOSURE STATEMENT —PTO-1449 (MODIFIED)

Patents and Publications for Applicant's  
**INFORMATION DISCLOSURE STATEMENT**

Applicant  
 Zamel et al.

Filing Date:  
 06/23/03

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
	A28	4,623,086	11/18/1986	Tihanyi et al.	228	123	
	A29	4,653,061	03/24/1987	Fukae	372	66	
	A30	4,673,030	06/16/1987	Basiulis	165	32	
	A31	4,699,465	10/13/1987	Rice et al.	350	162.11	
	A32	4,710,940	12/01/1987	Sipes, Jr.	372	75	
	A33	4,716,568	12/29/1987	Seifres et al.	372	36	
	A34	4,730,324	03/08/1988	Azad	372	33	
	A35	4,731,795	03/15/1988	Clark et al.	372	107	
	A36	4,792,930	12/20/1988	Kobayashi et al.	367	140	
	A37	4,831,629	05/16/1989	Paoli et al.	372	50	
	A38	4,847,848	07/11/1989	Inoue et al.	372	50	
	A39	4,852,109	07/25/1989	Kuchar	372	34	
	A40	4,881,233	11/14/1989	von Arb et al.	372	35	
	A41	4,881,237	11/14/1989	Donnelly	372	50	
	A42	4,894,839	01/16/1990	Baer	372	93	
	A43	4,899,204	02/06/1990	Rosen et al.	357	30	
	A44	4,901,330	02/13/1990	Wolfram et al.	372	75	
	A45	4,916,712	04/10/1990	Bender	372	75	
	A46	4,924,474	05/08/1990	Yagi et al.	372	75	
	A47	4,942,586	07/17/1990	Lai	372	68	
	A48	4,949,346	08/14/1990	Kuper et al.	372	36	
	A49	4,963,741	10/16/1990	McMullin	250	338.3	
	A50	4,972,426	11/20/1990	Steffen	372	35	
	A51	4,975,923	12/04/1990	Buus et al.	372	50	
	A52	4,984,246	01/08/1991	Cabaret et al.	372	69	
	A53	4,993,041	02/12/1991	Sidler et al.	372	98	
	A54	5,005,640	04/09/1991	Lapinski et al.	165	170	

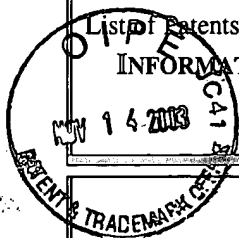
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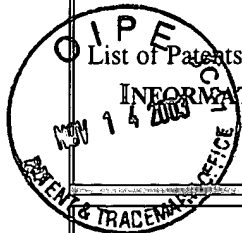


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	A55	5,012,481	04/30/1991	Casteleiro	372	72	
	A56	5,019,769	05/28/1991	Levinson	372	31	
	A57	5,022,042	06/04/1991	Bradley	372	75	
	A58	5,031,183	07/09/1991	Waters	372	45	
	A59	5,031,187	07/09/1991	Orenstein et al.	372	50	
	A60	5,040,187	08/13/1991	Karpinski	372	50	
	A61	5,073,838	12/17/1991	Ames	361	103	
	A62	5,076,348	12/31/1991	Bluege	165	104.17	
	A63	5,084,888	01/28/1992	Tajima et al.	372	39	
	A64	5,099,214	03/24/1992	Rosen et al.	333	157	
	A65	5,099,488	03/24/1992	Ahrabi et al.	372	361	
	A66	5,105,429	04/14/1992	Mundinger et al.	372	34	
	A67	5,115,445	05/19/1992	Mooradian	372	75	
	A68	5,116,455	05/26/1992	Daly	156	605	
	A69	5,123,025	06/16/1992	Papuchon et al.	372	72	
	A70	5,127,072	06/30/1992	Blauvelt et al.	385	88	
	A71	5,128,951	07/07/1992	Karpinski	372	50	
	A72	5,156,999	10/20/1992	Lee	437	215	
	A73	5,163,064	11/10/1992	Kim et al.	372	50	
	A74	5,181,221	01/19/1993	Mori et al.	372	46	
	A75	5,212,699	05/18/1993	Masuko et al.	372	34	
	A76	5,212,707	05/18/1993	Heidel et al.	372	50	
	A77	5,216,263	06/01/1993	Paoli	257	88	
	A78	5,216,688	06/01/1993	Kortz et al.	372	75	
	A79	5,222,095	06/22/1993	Zediker et al.	372	108	
	A80	5,243,619	09/07/1993	Albers et al.	372	97	
	A81	5,253,260	10/12/1993	Palombo	372	34	

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*INFORMATION DISCLOSURE STATEMENT —PTO-1449 (MODIFIED)*



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	A82	5,257,277	10/26/1993	Yagi et al.	372	75	
	A83	5,265,113	11/23/1993	Halldorsson et al.	372	36	
	A84	5,284,790	02/08/1994	Karpinski	437	129	
	A85	5,287,375	02/15/1994	Fujimoto	372	38	
	A86	5,305,344	04/19/1994	Patel	372	50	
	A87	5,311,528	05/10/1994	Fajino	372	35	
	A88	5,311,535	05/10/1994	Karpinski	372	50	
	A89	5,311,536	05/10/1994	Paoli et al.	372	50	
	A90	5,315,154	05/24/1994	Elwell	257	707	
	A91	5,323,411	06/21/1994	Shirasaka et al.	372	43	
	A92	5,325,384	06/28/1994	Herb et al.	372	36	
	A93	5,337,325	08/09/1994	Hwang	372	36	
	A94	5,351,259	09/27/1994	Ishimori et al.	372	75	
	A95	5,383,208	01/17/1995	Queniat et al.	372	29	
	A96	5,388,755	02/14/1995	Baxter	228	123.1	
	A97	5,394,426	02/28/1995	Joslin	372	50	
	A98	5,394,427	02/28/1995	McMinn et al.	372	70	
	A99	5,402,436	03/28/1995	Paoli	372	50	
	A100	5,402,437	03/28/1995	Mooradian	372	92	
	A101	5,438,580	08/01/1995	Patel et al.	372	36	
	A102	5,446,749	08/29/1995	Nighan, Jr., et al.	372	22	
	A103	5,452,118	09/19/1995	Maruska	359	191	
	A104	5,463,649	10/31/1995	Ashby et al.	372	40	
	A105	5,485,482	01/16/1996	Selker et al.	372	75	
	A106	5,504,762	04/02/1996	Hutchison	372	29	
	A107	5,521,936	05/28/1996	Irwin	372	75	
	A108	5,526,373	06/11/1996	Karpinski	372	101	

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Form PTO-1449 (modified)	Atty. Docket No. 47080-00045USPT	Serial No. 10/602,057
List of Patents and Publications for Applicant's <b>INFORMATION DISCLOSURE STATEMENT</b> MAY 14 2003 U.S. PATENT & TRADEMARK OFFICE	Applicant Zamel et al.	
	Filing Date: 06/23/03	Group: Not Assigned

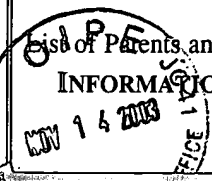
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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
	A109	5,533,163	07/02/1996	Muendel	385	126	
	A110	5,550,852	08/27/1996	Patel et al.	372	33	
	A111	5,561,684	10/01/1996	Martin	372	107	
	A112	5,563,899	10/08/1996	Meissner et al.	372	39	
	A113	5,570,387	10/29/1996	Carriere et al.	372	50	
	A114	5,590,147	12/31/1996	Hobbs et al.	372	75	
	A115	5,638,388	06/10/1997	Nighan, Jr. et al.	372	22	
	A116	5,663,979	09/02/1997	Marshall	372	103	
	A117	5,668,825	09/16/1997	Karpinski	372	101	
	A118	5,696,784	12/09/1997	Srinivasan et al.	372	46	
	A119	5,715,264	02/03/1998	Patel et al.	372	36	
	A120	5,734,672	03/31/1998	McMinn et al.	372	50	
	A121	5,745,514	04/28/1998	Patel et al.	372	43	
	A122	5,745,519	04/28/1998	Ruda et al.	372	101	
	A123	5,764,675	06/09/1998	Juhala	372	50	
	A124	5,778,132	07/07/1998	Csipkes et al.	385	135	
	A125	5,835,518	11/10/1998	Mundinger et al.	372	50	
	A126	5,898,211	04/27/1999	Marshall et al.	257	601	
	A127	5,913,108	06/15/1999	Stephens et al.	438	109	
	A128	5,923,694	07/13/1999	Culver	372	69	
	A129	5,985,684	11/16/1999	Marshall et al.	438	26	
	A130	5,987,043	11/16/1999	Brown et al.	372	36	
	A131	6,026,109	02/15/2000	Micke et al.	372	92	
	A132	6,052,392	04/18/2000	Ueda et al.	372	6	
	A133	6,052,396	04/18/2000	Zamel et al.	372	34	
	A134	6,061,378	05/09/2000	Marshall et al.	372	75	
	A135	6,101,206	08/08/2000	Apollonov et al.	372	50	

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
	A136	6,134,258	10/17/2000	Tulloch et al.	372	99	
	A137	6,272,164 B1	08/07/2001	McMinn et al.	372	50	
	A138	6,307,871 B1	10/23/2001	Heberle	372	34	
	A139	6,310,900 B1	10/30/2001	Stephens et al.	372	36	
	A140	6,351,478 B1	02/26/2002	Heberle	372	36	
	A141	6,385,226 B2	05/07/2002	McMinn et al.	372	50	
	A142	6,570,895 B2	05/27/2003	Heberle	372	34	

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Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B01	EP 0253935	01/27/1988	Europe	G06K	7/10	
	B02	EP 0432009 A1	06/12/1991	Europe	H01S	3/109	Abstract included
	B03	EP 0458469 A1	11/27/1991	Europe	H01L	23/495	
	B04	EP 0486175 A3	05/20/1992	Europe	G02B	6/42	
	B05	EP 0512541 A3/2	11/11/1992	Europe	H01S	3/133	
	B06	EP 0550996 A1	07/14/1993	Europe	H01S	3/025	
	B07	EP 0634822 A1	01/18/1995	Europe	H01S	3/00	
	B08	EP 0669684 A2	08/30/1995	Europe	H01S	3/103	
	B09	EP 0687047 A1	12/13/1995	Europe	H01S	3/25	Abstract included
	B10	EP 0743725 A1	11/20/1996	Europe	H01S	3/0941	
	B11	EP 0805527 A2	11/05/1997	Europe	H01S	3/025	
	B12	EP 0823759 B1	02/11/1998	Europe	H01S	5/40	
	B13	EP 0833419 A1	04/01/1998	Europe	H01S	3/25	Abstract included
	B14	EP 0840410 A2/3	05/06/1998	Europe	H01S	3/06	
/	B15	JP 55-65450	05/16/1980	Japan	H01L	23/30	unavailable
	B16	JP 59067639	10/24/1985	Japan	H01S	3/18	Abstract only

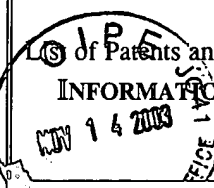
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Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B17	JP 01123493 A -	05/16/1989	Japan	H01S	3/18	Abstract included
	B18	JP 02281782 ✓	11/19/1990	Japan	H01S	3/18	Abstract included
	B19	JP 03-6875 ✓	01/14/1991	Japan	H01S	3/18	Abstract included
	B20	JP 03016290 A -	01/24/1991	Japan	H01S	3/18	Abstract included
	B21	JP 04023373 A ~	01/27/1992	Japan	H01S	3/00	Abstract included
	B22	JP 04023381 -	01/27/1992	Japan	H01S	3/18	Abstract
	B23	JP 04-359207	12/11/1992	Japan	G02B	6/42	Abstract included
	B24	JP 08172235 A	07/02/1996	Japan	H01S	3/133	Abstract included
	B28	JP 8-204263	08/09/1996	Japan	H01S	3/094	Abstract included
	B29	JP 10135548 A2	10/31/1996	Japan	H01S	3/10	Abstract included
	B30	WO 90/13158	11/01/1990	PCT	H01S	3/07	
	B31	WO 91/05382	04/18/1991	PCT	H01S	3/08	
	B32	WO 96/28846	09/19/1996	PCT	H01L	23/427	
	B33	WO 98/35410	08/13/1998	PCT	H01S	3/025	
	B34	WO 98/35411	08/13/1998	PCT	H01S	3/025	
	B35	GB 2190784A	11/25/1987	UK	H01S	3/02	
	B36	GB 2215906A	09/27/1989	UK	H01S	3/09	
	B37	GB 2241109A	08/21/1991	UK	H01S	3/00	

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

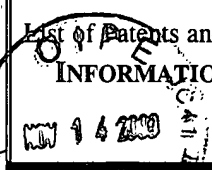
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	C01	Ahern, W.E., "Thermal Spacer for Room Temperature Close-Packed GaAs Laser Arrays," IBM Technical Disclosure Bulletin, May 1970, Vol. 12, No. 12, p. 2133.
	C02	ALC 1064-50P User's Manual, Amoco Laser Company, no date.
	C03	Broderick, N.G.R., et al., "Power Scaling in Passively Mode-Locked Large-Mode Area Fiber Lasers," IEEE Photonics Technology Letters, Dec 1998, Vol. 10, No. 12, pp. 1718-1720.
	C04	Laser Diodes and Bars, Coherent, Inc., no date.

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**INFORMATION DISCLOSURE STATEMENT —PTO-1449 (MODIFIED)**

Form PTO-1449 (modified)	Atty. Docket No. 47080-00045USPT	Serial No. 10/602,057
List of Patents and Publications for Applicant's <b>INFORMATION DISCLOSURE STATEMENT</b> 	Applicant Zamel et al.	
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### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C05	Laser Mounts, Precision Laser Mounts, Four-Axis Adjustable Laser Mount, Vertical Laser Mounts, Creative Stars, 1997.
	C06	Endriz, John G., et al., "High Power Diode Laser Arrays," IEEE Journal of Quantum Electronics, 04/28/92, No. 4, pp. 952-965.
	C07	Hughes, D.W., et al., "Laser Diode Pumped Solid State Lasers," Journal of Physics D: Applied Physics 25, 04/14/92, No. 4, pp. 563-586.
	C08	"Circuit Module Cooling with Multiple Pistons Contacting a Heat Spreader/Electrical Buffer Plate in Contact with Chip," IBM Corp., IBM Technical Disclosure Bulletin, May 1989, Vol. 31, No. 12, pp. 5-7.
	C09	"Heat Sink Assembly for Tab-Mounted Devices," IBM Corp., IBM Technical Disclosure Bulletin, Nov 1988, Vol. 31, No. 6, pp. 372-373.
	C10	Ishimori, Akira, et al., "Pumping Configuration Without Focusing Lenses for a Small-Sized Diode-Pumped Nd: YAG Slab Laser," Optics Letters, 01/01/92, Vol. 17, No. 1, pp. 40-42.
	C11	Collimated Diode Laser Assemblies, Melles Griot, no date.
	C12	Cylindrical Laser Holders, Melles Griot, 1995
	C13	Mundinger, D., et al., "High Average Power Edge Emitting Laser Diode Arrays on Silicon Microchannel Coolers," Applied Physics Letters 57, 11/19/90, No. 21, pp. 2172-2174.
	C14	Nabors, C.D., et al., "High-Power, Continuous-Wave, Nd: YAG Microchip Laser Array," Optics Letters, 11/15/92, Vol. 17, No. 22, pp. 1587-1589.
	C15	Laser Mounts, Newport, 1997.
	C16	Precision Gimbal Mounts, Oriel, 1992.
	C17	Paschotta, Rudiger, "Ytterbium-Doped Fiber Amplifiers," IEEE Journal of Quantum Electronics, July 1997, Vol. 33, No. 7, pp. 1049-1056.
	C18	SDL-FL10, SDL, Inc., 1993
	C19	Sekiguchi, Hiroshi, et al., "New Type of Fiber Laser: Concept & Realization," 2 pages.
	C20	Semiconducteurs Specifiques, Thomson-CSF.
	C21	Ueda, K., et al., "Future of High-Power Fiber Lasers," Laser Physics, Vol. 8, No. 3, pp. 774-781
	C22	Ueda, Ken-ichi, "The Next Generation of High-Power Fiber Lasers - A Unique Proposal from Japan," Special Lecture, pp. 52-60
	C23	Usui, Mitsuo, et al., "Novel Packaging Technique for Laser Diode Arrays Using Film Carrier," 43 <sup>rd</sup> Electronic Components & Technology Conference, 06/01/93, pp. 818-824.

<b>EXAMINER:</b>	<b>DATE CONSIDERED:</b>
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